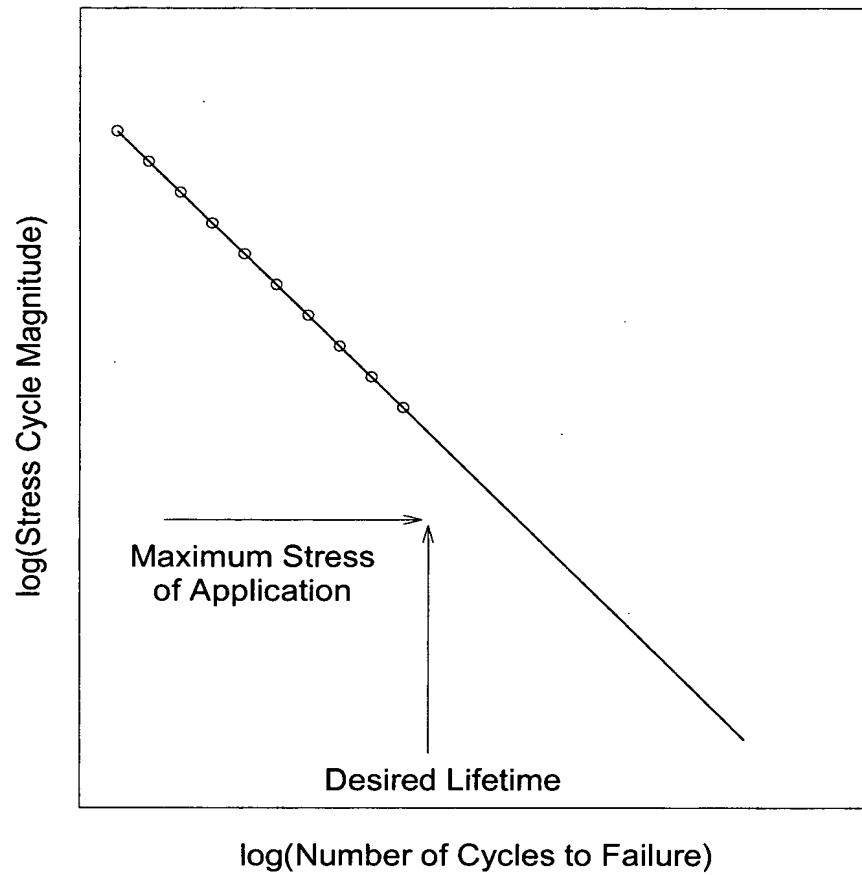


Fig. 1

Fatigue S-N Failure Curve



Compressive Creep Sample Geometry

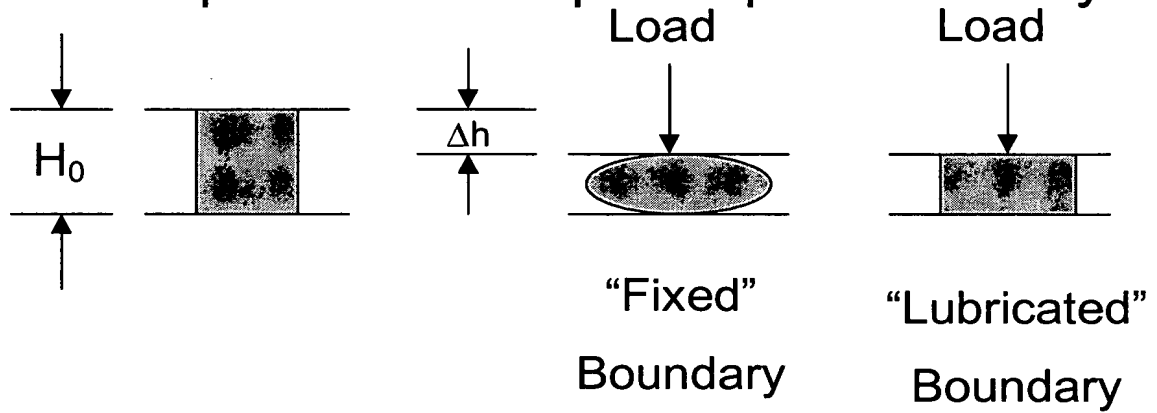
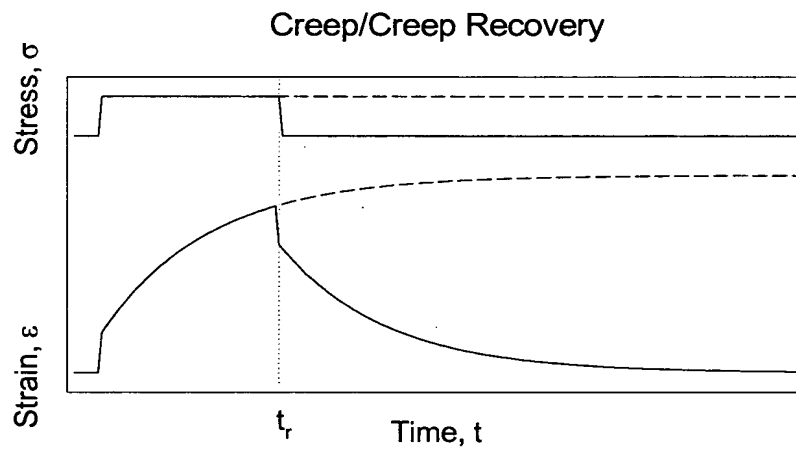


Fig. 2



$$\epsilon = \Delta h / H_0 ; \sigma = \text{Load} / \text{Area}$$

$$\epsilon(t) = D(t) \sigma$$

Fig. 3

Fig. 4

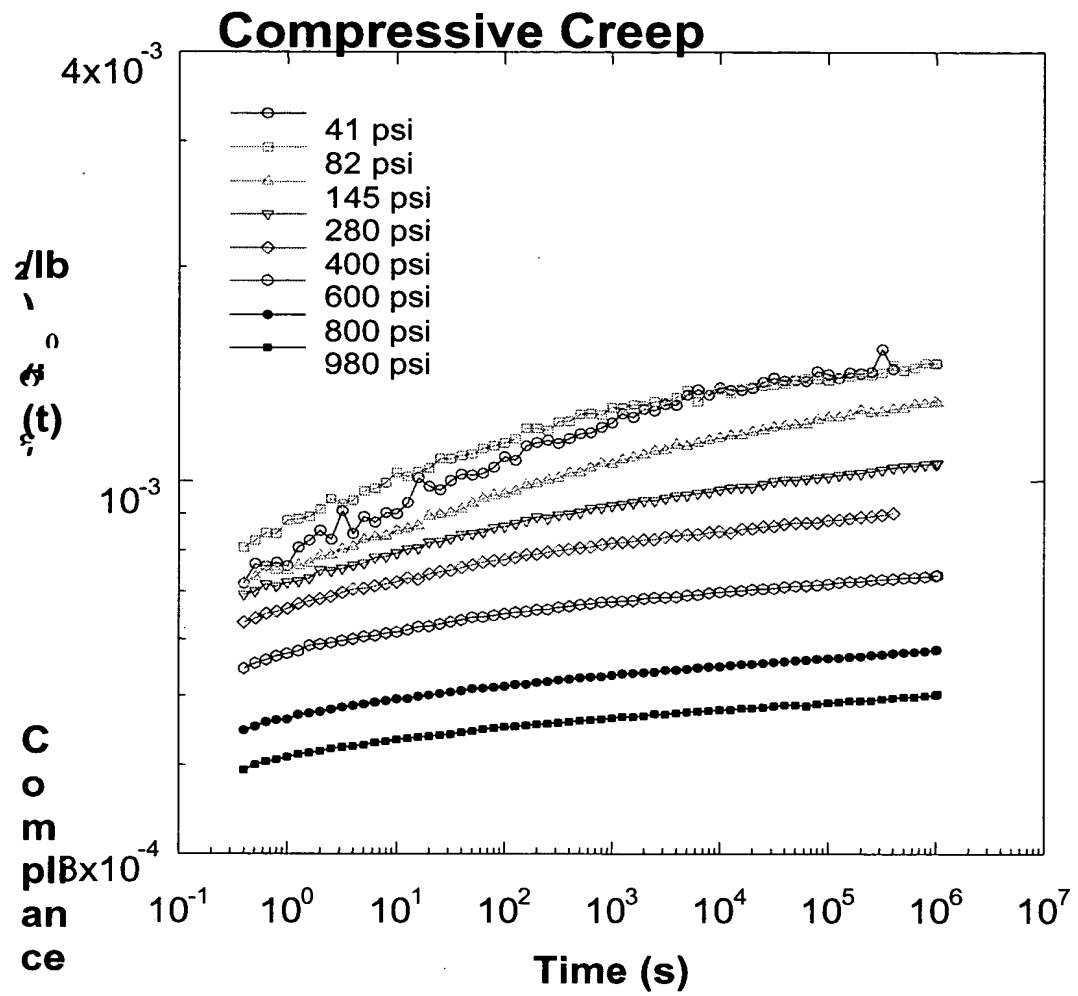


Fig. 5

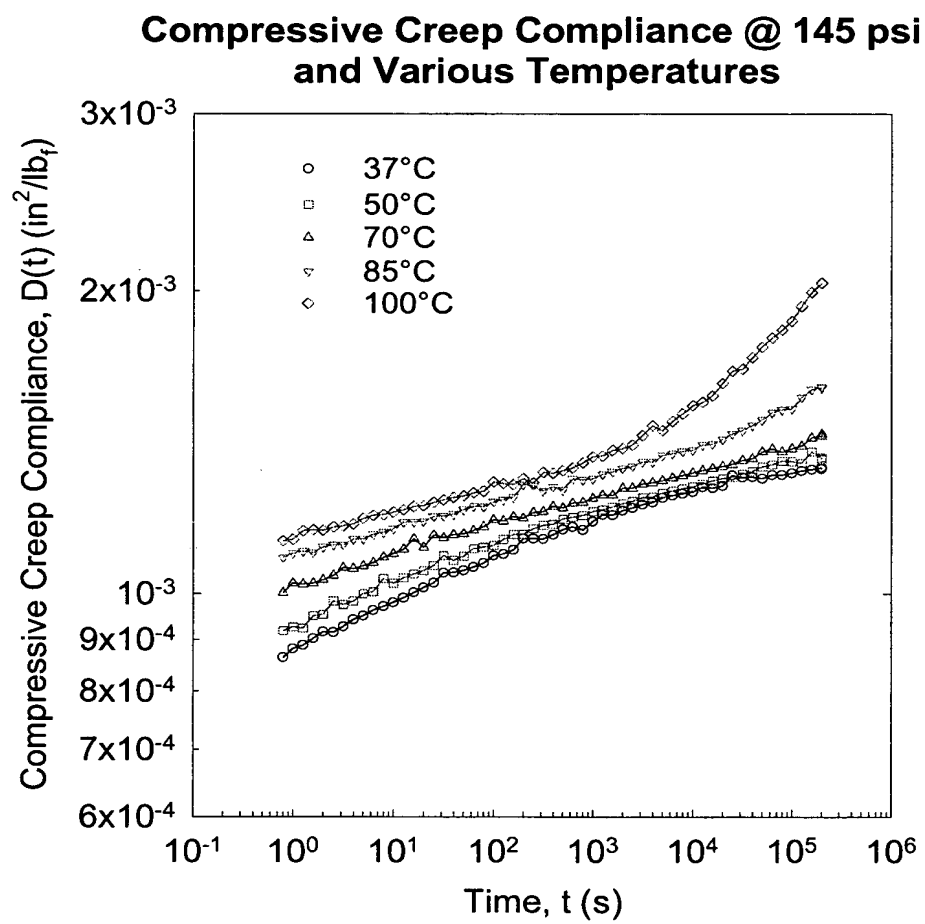


Fig. 6

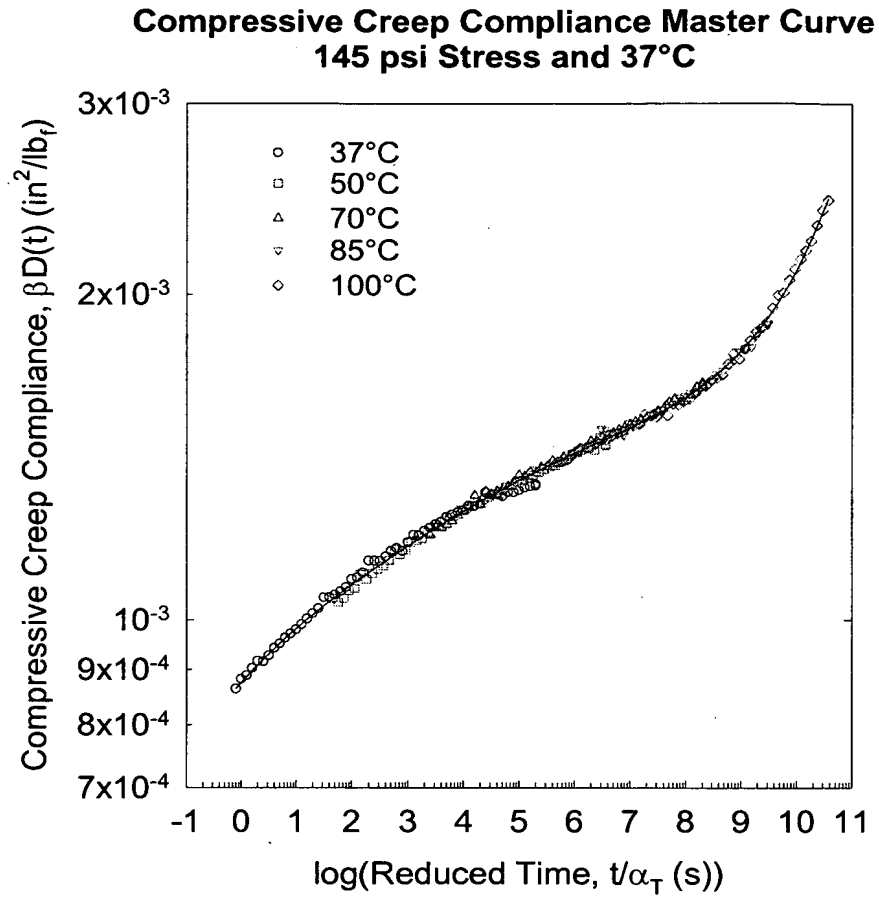
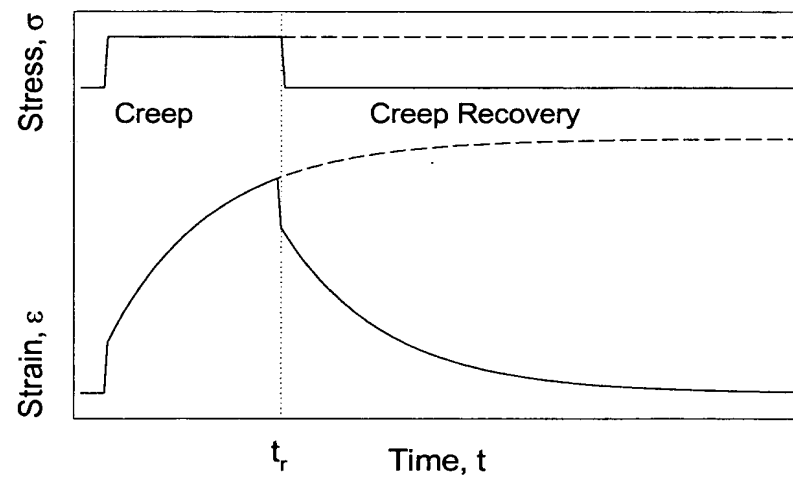


Fig. 7

Creep/Creep Recovery--Single Load Cycle



$$\epsilon(t) = \sigma_1 D(t) \quad \text{Creep Phase}$$

$$\epsilon(t) = \sigma_1 D(t) - \sigma_1 D(t-t_r) \quad \text{Recovery Phase}$$

Fig. 8

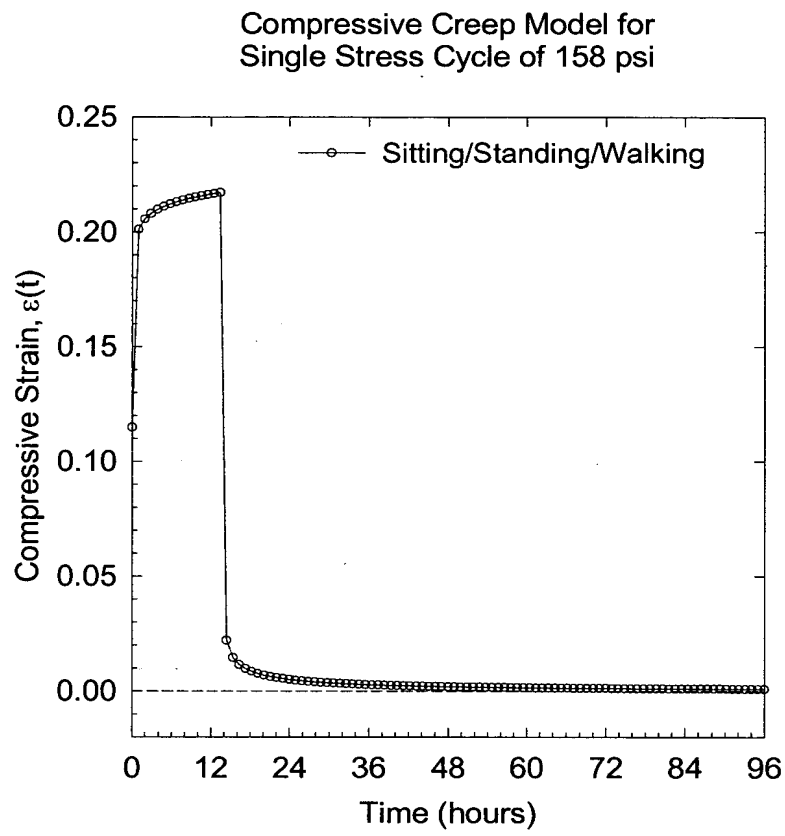


Fig. 9

Compressive Creep Model for Polymeric Component
Subjected to 100 psi Compressive Stress Cycles

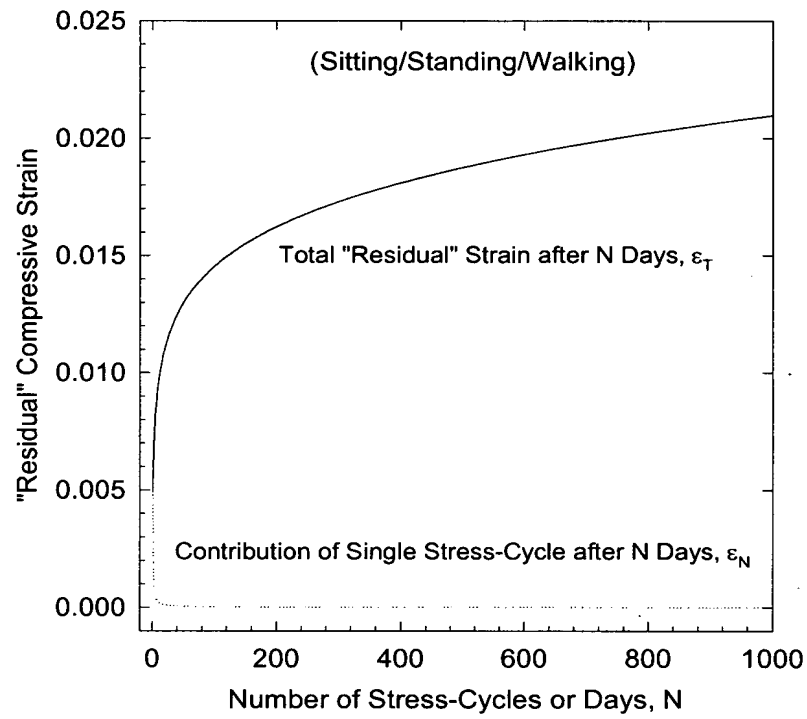


Fig. 10

Compressive Creep Model for Polymeric Component
Subjected to Various Compressive Loads

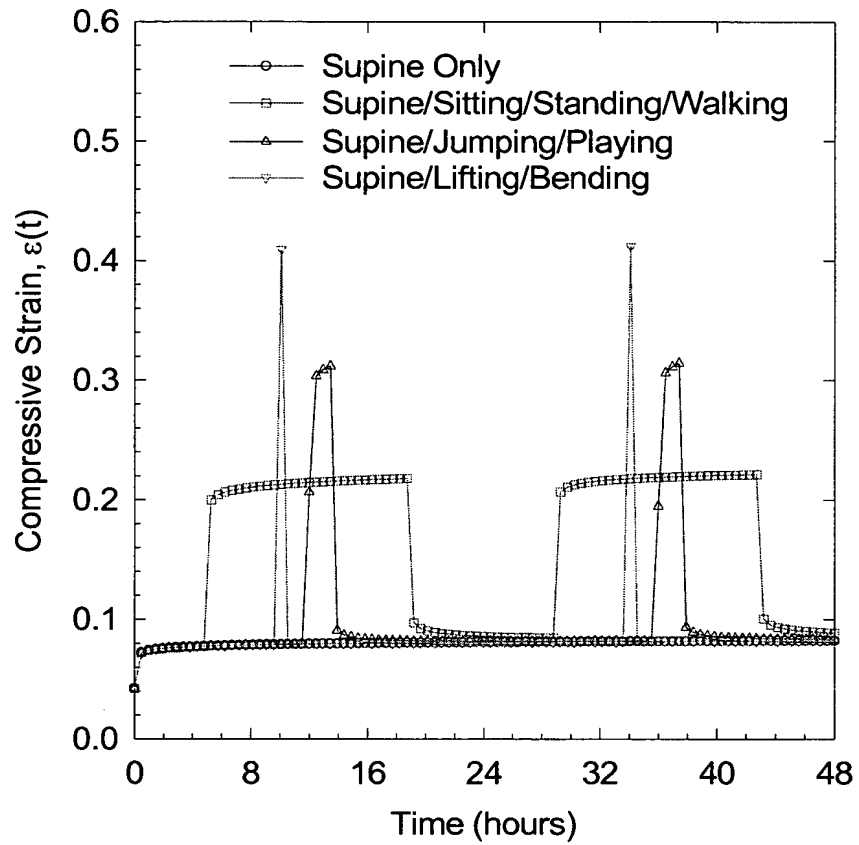


Fig. 11

"Residual" Strain Components for Various Activities During "Resting" Period

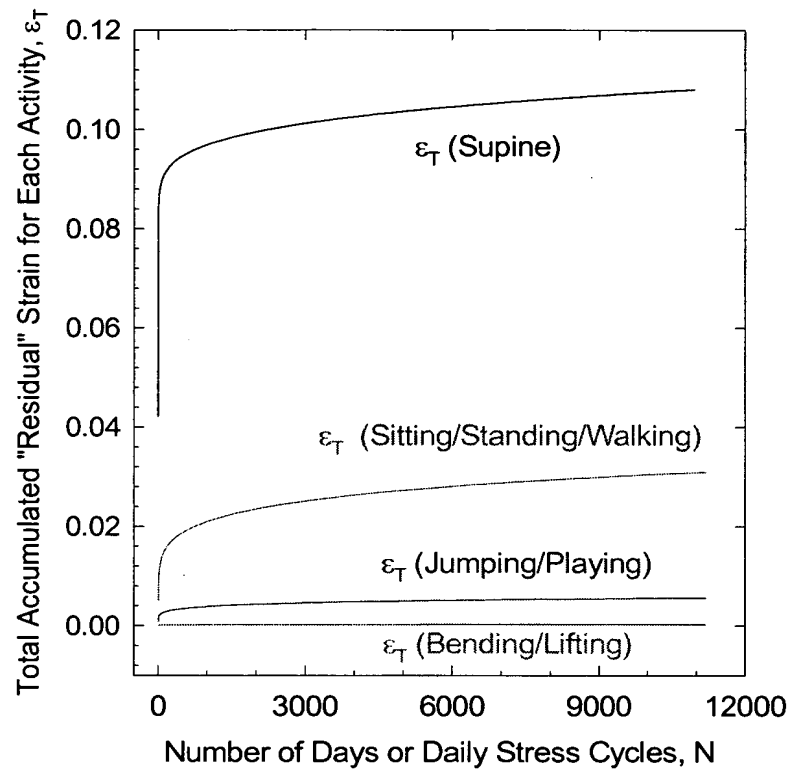


Fig. 12

Compressive Strain During "Resting" and
Maximum Strain During Activities

